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PATENT ABSTRACTS OF JAPAN

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(71)Applicant : VICTOR CO OF JAPAN LTD

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(72)Inventor : TADA KATSUHISA

(54) 2-WAVELENGTH SEMICONDUCTOR LASER APPARATUS**(57)Abstract:**

PROBLEM TO BE SOLVED: To provide a 2-wavelength semiconductor laser apparatus that simplifys an optical system used for an optical pickup, etc.

SOLUTION: The 2-wavelength semiconductor laser apparatus is used for the pickup for recording and reproducing by emitting different 2-wavelength laser beams to a disk via a lens having an aberration allowing range of a light of 100 μm . The 2-wavelength semiconductor laser apparatus includes a common substrate 11 in which first and second lasers 1, 2 are formed so that the laser beam emitting surfaces of the first and second lasers 1, 2 are opposed to each other, and a reflector 3 having two reflecting surfaces 3a, 3b formed at a central part between the first and second lasers for reflecting the first and second laser beams so that the vertical sections of the emitting directions of the first and second laser beams emitted from the first and second lasers are inclined at 45° with respect to the common substrate. The first and second laser beam emitting units are formed at positions in which the distances between the positions of the reflecting surfaces of the reflector for reflecting the first and second laser beams and the perpendicular lowered from the top of the reflector to the common substrate are 50 μm or shorter.

